

SYSTEM DELTA 30
DELTAGUARD | USER MANUAL



Content

User Manual DELTAGuard

01	General Safety	1-9
02	Installation Instructions	10-11
03	Description of the Key Components	12-17
04	General Instructions	18-25
05	Maintenance Guidelines	26-31
06	Trouble-Shooting	32-35
07	Technical Data	36-39
08	Spare Parts List	40-41
09	Prototype Test Report	42-43

General Safety

1.1 This User Manual	6
1.2 Safety Symbols	6
1.3 Conventional Use	6
1.4 Obligations of the Operator	7
1.5 Obligations of the Staff	7
1.6 Liability	7
1.7 Accident Prevention Regulations	8
1.8 Operating Safety	8

1.1 This User Manual

- shall be carefully read prior to operating the fume cupboards and their components.
- shall implicitly be observed and applied.
- shall be stored at a place known by and accessible to the staff.

1.2 Safety Symbols

You will see the following symbols with all important safety instructions within this user manual. Strictly observe these instructions and act especially careful in these situations. Marking of the safety instructions:



DANGER!

This sign shows a risk of injury for one's life, if particular rules of conduct are disregarded. Whenever you see this sign in the user manual please take all necessary safety precautions.



ATTENTION!

This sign cautions you against material damages and financial as well as criminal disadvantages (e.g. loss of warranty, liability cases).



NOTE

Here you will find important notes and information.

1.3 Conventional use

- **Fume cupboards:** The fume cupboards are determined to extract and lead off corrosive gas arising during chemical processes in a conventional laboratory environment. Each fume cupboard may only be used according to its determination (approval) and its choice of material that is either chemically, thermally or mechanically.
- **Extract air function display:** The function display is exclusively determined to control extract air flows in laboratory fume cupboards according to DIN EN 14175. Utilization in explosive areas may only be allowed for special executions and with an exact clarification of the operational conditions.
- **Fume cupboard sash control:** The fume cupboard sash control is exclusively determined for an automatic closing of fume cupboards not in use, to protect the staff (splash protection) and to avoid pollutant emission when people drop across. The automatic fume cupboard sash may not be used in explosive areas.

1.4 Obligations of the Operator

The operator is obliged to allow only people to work with the fume cupboard who:

- are familiar with the basic regulations about industrial safety and accident prevention.
- are instructed in the handling of fume cupboards and their components.
- have read and understood the complete user manual.

If failures are indicated or recognized which may not be removed by the operator, the manufacturer shall be informed immediately. Fume cupboards with failures may not be operated.

1.5 Obligations of the staff

All persons working with fume cupboards or their components are obliged to:

- keep the basic regulations of industrial safety and accident prevention.
- have read the complete user manual.

If failures are indicated or recognized the operator shall be informed immediately. Fume cupboards with failures may not be operated.

1.6 Liability

Warranty and liability claims, in case of personal injury or property damage are excluded, presupposed that they can be traced back to one or more of the following causes:

- Unconventional use of the fume cupboards.
- Improper commissioning, operation, cleaning, maintenance and repair of the fume cupboards.
- Operating the fume cupboards with defect safety devices or controls.
- Non-observance of the user manual with regard to commissioning, operation, cleaning, maintenance and repair.
- Unauthorized structural alterations of the fume cupboards or their components.
- Insufficient control of the parts that are subject to wear and tear.
- Catastrophes by contaminant exposure or force majeure.

If failures are indicated or recognized, the operator shall be informed immediately. Fume cupboards with failures should not be operated.

**NOTE**

The manufacturer only and exclusively bears the complete warranty for the spare parts delivered and installed by him.

**ATTENTION!**

No unauthorized alterations, additions or changes may be carried out at the fume cupboard and their components. Any measures of alteration require prior confirmation by the manufacturer. Only use original spare parts. In case of externally procured parts it is not ensured that they are designed and produced according to the strain and required safety.

1.7 Accident prevention regulations

The following rules and regulations shall be kept for installation jobs, commissioning, operation, maintenance and repair:

- UVVs of the trade association
- VDE guidelines
- Regulations of the local utilities (electricity, water, gas)
- Guidelines for connections, connection plans and installation schemes of Wesemann GmbH
- BGR 120 (ZH 119/1)

1.8 Operating Safety

Possibilities of access are given by horizontal sliding panes. If the front sash is open, polluted gas may be picked up by strong blasts in the room or by people dropping across.

- Do not place any stationary fixtures or shelves in the fume cupboard.
- Keep front sash closed for protection during the working process
- Set up tests, if possible, always in the rear part of the working area so that the air is able to circulate around the appliances.
- In case of high heat and acid load, exhaustion of polluted gas may be disturbed by a too high thermal current for standard fume cupboards that are designed only for normal strains.
- Bleeder valves behind installation doors shall always be accessible.
- Prior to working on the electrical duct, power supply shall be switched off, safe-guarded against resetting and checked for zero potential.
- If the power supply is switched on no works may be carried out on the electric components of the fume cupboard sash control (AFS). For this kind of works the control of the automatic sash shall be activated, safeguarded against resetting and checked for zero potential.
- In case objects or liquids reach into the housing of the fume cupboard sash control (AFS) or odours or smoke are developing: plug out power plug or disconnect the appliance. Have the appliance checked by the manufacturer.

- Only move or stop automatic fume cupboard sash through the handle.
- Prior to opening the housing of the fume cupboard sash control (AFS) unplug the power plug or disconnect the appliance.
- Connection cable and hoses shall be arranged in such a way that they do not create a safety risk (e.g. stumbling, breaking away).
- Sliding panes shall be used as body protection when working in the fume cupboard interior.
- No glass objects may be deposited in the operating radius of the fume cupboard sash. The light barrier might not recognize these glass objects in time.
- Do not use any abrasive or aggressive cleaners.
- Regularly check the fume cupboard interior for cracks and damages and please immediately repair them as otherwise chemicals may infiltrate the cracks.
- Immediately replace faulty connections (e.g. sockets, fittings).
- Material resistance in the fume cupboard interior shall be checked with regard to the services used for the tasks in the fume cupboard.
- Intake openings shall never be blocked.

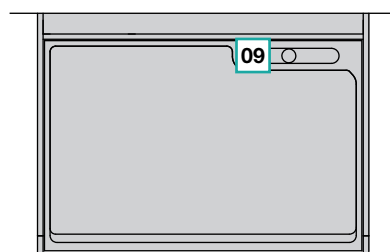
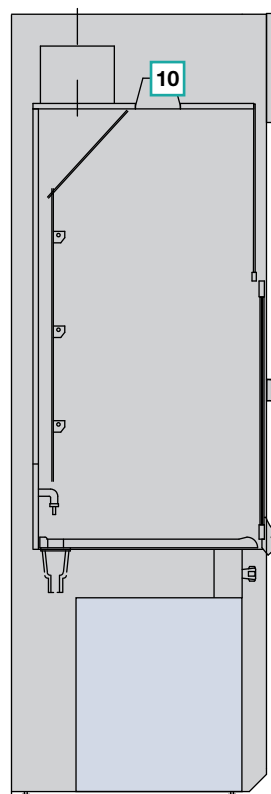
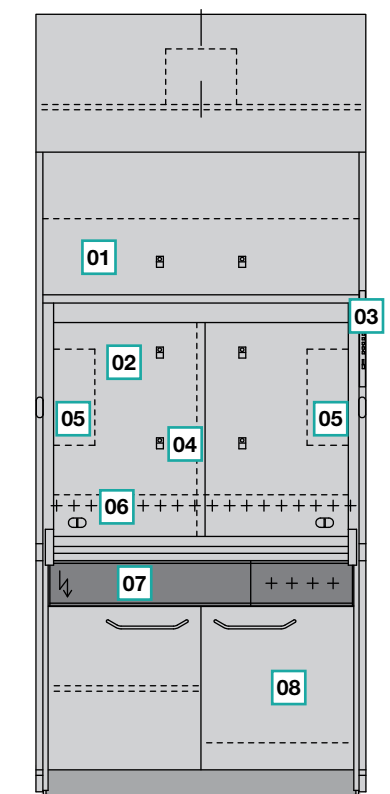
Installation Instructions

- Installation, wiring, connection jobs and commissioning may only be carried out by specialized staff from the manufacturer or by fitting and installation companies authorized by the manufacturer.
- Acknowledged engineering rules, but especially safety and accident prevention regulations shall be observed and kept for installation, wiring, connection and commissioning jobs.
- Prior to initial commissioning of electric components it shall be checked whether the operating voltage indicated on the type label corresponds to the one of the local supply voltage.
- The control of the fume cupboard sash control (AFS) shall be separately protected by fuse with an own circuit. The air exchange rate function display may neither be used in a humid or nor in rooms equipped with an explosion-proof device.
- In chapter 3, you can find an overview of the most important fume cupboard technical data. The technical data specified for each of the fume cupboards you can find in the „technical documentation“ (not included in this document). Please contact us for more details.

Description of the Key Components

3.1 Overview of the Components	14
3.2 Standard Width	15
3.3 Height of the Fume Cupboards	15
3.4 Operating Area	16
3.5 Fume Cupboard Function Display	16

3.1 Overview of the Components



01 Transparent front top panel with fixed glass panel or 2 cross slides (optional)

02 Option: front sash with 3 / 4 cross slides

03 Fume cupboard function display

04 3 rows of scaffold points

05 Option: socket on the inside, operated from the outside

06 Service fitting points

07 Aluminium channel with electrical service outlets and remote control fittings

08 Option: Storage cabinets or storage cabinets for hazardous materials

09 Option: Sink

10 Lightning fixtures

3.2 Standard Width

The fume cupboards are available in the following standard widths:

DIN EN 14175 (Fume cupboards for general use)				
Types of fume cupboards	1.200 mm	1.500 mm	1.800 mm	2.100 mm
Bench mounted fume cupboard	✓	✓	✓	✓
Low ceiling bench mounted fume cupboard	✓	✓	✓	✓
Low level fume cupboard	✓	✓	✓	✓
Walk in fume cupboard	✓	✓	✓	✓

DIN 25466 (radio-isotope fume cupboards)			
Types of fume cupboards	1.200 mm	1.500	1.800
Bench mounted fume cupboard	✓	✓	✓
Fume cupboard (Filter on top)	✓	✓	✓
Fume cupboard (Filter next to)	✓	✓	✓

3.3 Height of the fume cupboard

The fume cupboards are available in the following standard heights:

DIN EN 14175 (Fume cupboards for general use)		
Types of fume cupboards	2.405 mm	2.730 mm
Bench mounted fume cupboard		✓
Low ceiling bench mounted fume cupboard	✓	
Low level fume cupboard		✓
Walk in fume cupboard		✓

User Manual | DELTAGuard | Description of the Key Components

DIN 25466 (radio-isotope fume cupboards)		
Types of fume cupboards	2.405 mm	2.730 mm
Bench mounted fume cupboard		✓
Fume cupboard (Filter on top)		✓
Fume cupboard (Filter next to)		✓

3.4 Operating Range

Every type of fume cupboard has a certain air technical operating range. Within this range the extract air volume may fluctuate. Relevant specifications are shown on the type labels of the fume cupboards and in the technical documents.

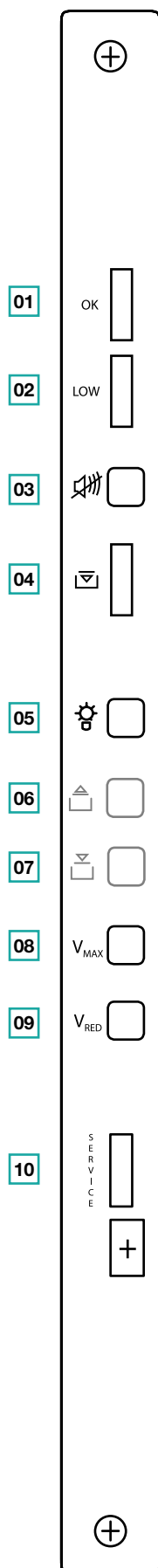
3.5 Fume Cupboard Function Display

According to the DIN EN 14175 each fume cupboard type is equipped with an extract air function display. This function display is installed at the side of the fume cupboard. Each fume cupboard shows a certain pressure drop that depends on the extracted air volume. Measurements of a fume cupboard's pressure drop is usually made through a differential pressure measurement between the laboratory and the extract air spigot of the laboratory. In this case the laboratory fume cupboard represents the streamed obstacle. The measuring outcome results are indicated by a LED.

Fume cupboard function display	Betriebszustand	
Display (LED)		
green	OK 	Normal operation
green, flashing	OK 	Extract air volume too high
yellow, flashing ¹		Sash above 500 mm opening height
red ¹	OK 	Extract air volume too low
red, flashing ¹	LOW 	Power failure
green, flashing	SERVICE 	Due for maintenance

¹ An additional turn-off warning signal is released.

User Manual | DELTAGuard | Description of the Key Components



Extract air function display

01 Green LED illuminates when the extract air volume is within the normal range

02 Red LED is flashing when the extract air volume is too high or too low (sash opening between 0-500 mm). The LED is illuminating when the sash is above the opening height of 500 mm: uncertain operational state

03 When extract air volume too low: warning signal for 30 seconds

04 Yellow LED is flashing: sash above opening height of 500 mm

05 Switch to turn the light in the fume cupboard interior on and off

06 Opening of the sash through the motor (optional)

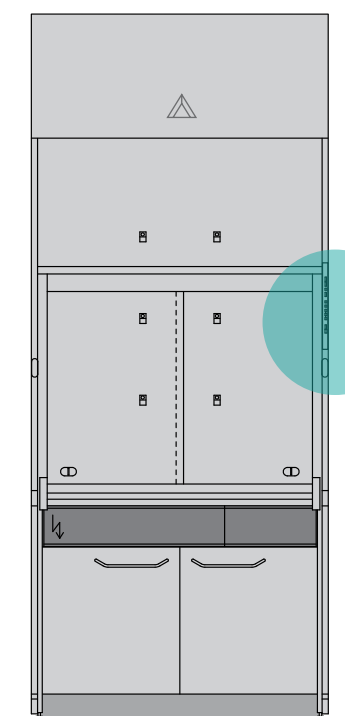
07 Closing of the sash through the motor (optional)

08 Key for manual increase of the extract air volume in the fume cupboard interior

09 Free key - no function

10 When illuminating (green) please contact the Wesemann service department

*0,14€ per minute from the german T-Com network.



General Instructions

4.1 General	20
4.2 Sash	20
4.3 Extract Air Function Display	20
4.4 Fume Cupboard Sash Control (AFS)	21

4.1 General

Please pay attention to the safety instructions according to chapter 1.8

Especially pay attention to the following points:

- Keep front slide closed during tests.
- If possible, set up tests in the rear working area and on stands.
- Check surfaces for resistance.
- Check fume cupboard for possible deposits and clean it, if necessary
- Intake openings shall be free.
- Connection cables and hoses shall be safely laid/installed

4.2 Sash

Always keep the sash closed during tests and if not in operation. The sash should only be opened during the test set up. For short-term access always use the cross slides. The fume cupboard may be manually operated at any time, irrespective of an optional sash control. The sash may be horizontally opened and closed by the loop handle. When opening the sash it should be opened up to the stopper that stops the sash at an opening height of 500 mm (normal operation). Beyond, the sash may only be opened by turning the loop handle. The sash should be opened beyond 500 mm only during the test set-up. As soon as the sash is pulled down it is automatically locked below the 500 mm marking.

4.3 Extract Air Function Display

Normal Operation

Extract air function display	Operating state		Measures
Display (LED)			
green	OK 	normal operation	None
green, flashing	OK 	Extract air volume too high	Press the Quit button. Please inform the technical person in charge/service. Ventilation device shall be adjusted.

Failure

Extract air function display	Operating state		Measures
Display (LED)			
red	OK 	Extract air volume too low	Press the Quit button. Please inform the technical person in charge/service. Ventilation device shall be adjusted.
red, flashing	LOW 	Power failure	Check voltage supply, check fuse.



NOTE

The warning signal is cleared, by pressing   the QUIT button or after expiry of the preset time. The visual error indication remains until the fume cupboard is extracting the right air volume again

Control Keys

The key that are serially available provide the following functions:



 QUIT switch to confirm (clear) the warning signals



 LIGHT switch to switch the light in the fume cupboard interior on and off

4.4 Fume cupboard sash (AFS) optional

Components

The electronic control of the fume cupboard is automatically closing, in case the fume cupboard is not in operation. A passive infrared detector (PIR) continuously controls the working area in front of the laboratory fume cupboard. If no operating staff is directly in front of the lab fume cupboard, the automatic locking process of the sash is started. The pollutant emission of a fume cupboard is lowest if the sash is closed. In connection with a fume cupboard control it is energy saving and the air volume escaping above the fume cupboard is reduced.

User Manual | DELTAGuard | General Instructions

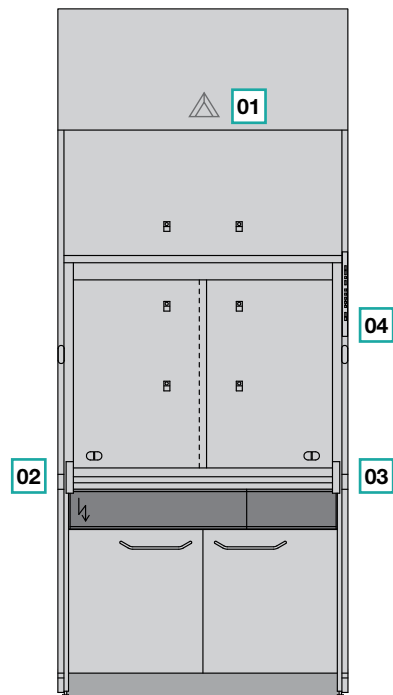
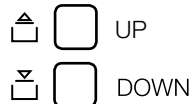
Extract air function display

01 Passive infrared detector (PIR)

02 Sender of the light barrier

03 Receiver of the light barrier

04 Operation controls (option)



- **Passive infrared detector (PIR):** The passive infrared detector (PIR) continuously controls the field of action of the fume cupboard. In case no movements are measured within a given time frame, the fume cupboard sash is closed automatically.
- **Infrared light barrier:** Detects objects that might obstruct the automatic locking process. Diffusion of the light barrier ray is less than 1 mm. The sender/receiver light barrier is installed on the left and the right bottom side of the sash and controls the locking process. Instruments leading through the laboratory sash (e.g. measuring probes, flasks, etc.) are detected and the automatic locking process is stopped immediately.
- **Control key:** incorporated into the control panel of the fume cupboard function display: Foil keys are available for the operation modes UP and DOWN. The keys control the movement (UP, DOWN) or immediately stops movement of the fume cupboard sash. It is also possible to manually move the sash.
- **Control:** The control system is processor-controlled. The locking delay is freely adjustable from 10 s. to 30 min.
- **Drive:** The drive consists of a motor, an electromagnetic coupling and a distance sensor.
- **Loop handle:** With this handle the sash may be moved or stopped manually without changing the grip.

Operation

Irrespective to an automatic sash control, the fume cupboard may be operated manually at any time and without limitations.

- **Manual Operation:** If the sash is in an inactive position it may be opened and closed with the loop handle. Drive and sash are decoupled when in inactive state.
- **Opening sash through the motor:** Briefly actuate key   UP
The sash opens and automatically stops at an opening height of 500 mm. By briefly actuating the key UP or DOWN any movement is stopped immediately.
- **Closing sash through the motor:** Briefly actuate key   DOWN
The sash closes and automatically stops in the BOTTOM position. By briefly actuating the key UP or DOWN any movement is stopped immediately. The light barrier monitors the closing movement for obstacles.
- **Automatic locking device:** In case no activity was detected in the fume cupboard within a given time frame the sash is automatically closed and stops when in BOTTOM position. The light barrier monitors the closing movement for obstacles. If a person is detected during this locking process, the process will be stopped immediately (optional).



NOTE

The time frame until the closing of the sash may be varied in a range from approx. 10 seconds to 30 minutes. This setting shall be made by experienced and well trained service staff only.

- **Detection of obstacles:** If the sash is in up or down movement, the direct area below the handle bar is monitored by means of a light barrier. 02 03
An interruption of the signal by touching the working room or object, projection from the interior cause an immediate stop of the movement.



DANGER!

In case a detected obstacle stopped the closing process, the locking mechanism is deactivated. By actuating the UP or DOWN key, or by manually sliding the sash for at least 3 cm, the locking mechanism is reactivated (return to normal operation).



NOTE

Other criteria may be programmed for returning to normal operation (2 cm downward movement, or only a manual sash movement). This setting shall be made by experienced and well trained service staff only.

Maintenance Guidelines

5.1 Expert Knowledge	26
5.2 Maintenance Contract	26
5.3 Cleaning Plan	26
5.4 Cleaning Tasks	27
5.5 Test Plan	28
5.6 Execution of Works	29

5.1 Expert Knowledge

In order to ensure the protective character of a fume cupboard, the respective safety equipment shall be maintained and checked for their efficiency in regular intervals. This obligation is based on **the technical guideline for the handling of hazardous materials (trSG) 526: laboratories**. According to these there is the obligation to have the fume cupboards checked annually. The complexity of the mechanical and air technical tests are further defined in **5.5. Test plan**.

The expert ist someone who has sufficient knowledge in the field of fume cupboard tests, due to his training or experience, and who is as familiar with the relevant national regulations for industrial safety, accident prevention regulations, guidlines and generally acknowledged engineering rules (e.g. DIN and EN standards, VDE regulations, engineering rules of other EC member states or other contractual states of the agreement for the European Economic Community) as to being able to judge the industrial safety of fume cupboards.

5.2 Maintenance contract

To be able to guarantee safely operating fume cupboards we advise you to have the maintenance and service jobs done by our service company **infralab GmbH**. The maintenance contract guarantees an ideal combination between the health protection of your employees and the protection of your lab investments. Your warranty claims are fully guaranteed. Furthermore, the professional competence of the **infralab GmbH** guarantees and documents the compliance of the regulations towards the inspecting authority.

The **infralab GmbH** is an independent company and part of the Wesemann Group. Infralab is responsible for the service and maintenance of lab facilities. **infralab GmbH, Max-Planck-Straße 12, 28857 Syke, www.infralab.com**

5.3 Cleaning plan

Cleaning plan for the DELTAGuard fume cupboards	
Cleaning tasks	Interval
Cleaning of sash	if required
Cleaning of panels	if required
Cleaning of extract air ducts	Quarterly

5.4 Cleaning tasks

General cleaning tasks: Sash and panel shall be cleaned whenever required and depending on the degree of pollution. However, a regular cleaning is suggested.



ATTENTION!

Do not use abrasive cleaners for these cleaning tasks. For glass surfaces use a glass cleaning detergent, for all other areas a conventional household cleaning detergent is sufficient. Always apply the detergent with soft cloth only.

Cleaning of Extract Air Ducts:

- Extract air ducts are accessible as soon as the scaffold rods are detached.
- Unscrew 3 x screws in the bottom area of the rear baffle.
- Unscrew hexagon socket screw (5mm) of the scaffold rod holder.
- Detach scaffold rod holder and rear baffle.
- Clean extract air ducts.
- Reinstall rear baffle and scaffold rod holder and tighten hexagon socket screws.
- Tighten 3 x screws in the bottom area of the rear baffle. .

5.5 Test plan

The following testing works shall be carried out annually:

Test plan DELTAGuard fume cupboards		
Testing works, please check:	Settled	Result
Fume cupboard interior for cracks/rupture		
Underbench extraction for function (optional)		
Worktops for cracks/rupture		
Cup sinks for cracks/rupture/tightness (optional)		
Function of bleeder valves		
Glass of lamp for damages		
Joints in the interior for cracks		
Function of the front slide		
State of the sash stopper		

User Manual | DELTAGuard | Maintenance Guidelines

Panes/handle shells for damages		
Sash ropes for damages/tightness		
Guide pulleys for wear and tear		
Rope protection device for function		
Routing of the weight basket		
Sash-poti-pulleys		
Fume cupboard lamp for function		
Tightness of the fume cupboard connection (visual)		
Sprinkling function (optional)		
Automatic sash closing system		
Optical/acoustical alarm sash > 500 mm		
Function 500 mm sash stop		
Extract air function display for function:		
■ connections		
■ accu power		
■ limiting values		
■ light emitting diodes		
■ acoustic warning		
Set back the maintenance interval		
Extract air volume		
Jointing in the plinth area for condition		
Plinth for tightness		
Stands for damages		
Alignment of doors at underbench units		
Hinge plates for wear and tear/corrosion		
Loop handle for damages/tightness		

Drawer guide mechanism for damages		
Shelves for deformation/rupture		
Locking systems for function		
Supply lines to the stop valve		
Disposal lines to the deposit point on site		
Electrical devices according to DIN 57100/ VDE 0100, part 600		

5.6 Execution of Works

Checking of Extract Air Function Display :

- Simulation of extract air failure. Once a year, an extract air failure should be simulated.
- Checking of connections. Visually check all connections for a correct fit and for the right position and damages.



DANGER!

- The measuring hose may neither be damaged nor kinked. It shall be tightly fixed to both, the extract air spigot and the sensor.
- Checking of limiting values. Detach the hose from the function display.
- Checking of back-up battery is checked by switching of the power supply.



NOTE

- Back-up battery (6V / 1.2 Ah) shall be replaced after a maximum running time of 2 years.
- Checking of the functions of the light emitting diodes. Detach the hose from the function display.
- Checking of warning signal. Switch the device off. Press QUIT key  as soon as the warning signal sounds.

Replacement of means of Illumination:

- To illuminate the fume cupboard interior 2 x 30 Watt fluorescent tubes are being used. In case of a failure of these tubes they shall be replaced immediately.
- The front panel is held by two bars at the back side. Thanks to the 2 bars, the panel can be swivelled to the front or may also be unhinged completely.
- Remove the metal housing of the lamp from the ceiling of the fume cupboard. Remove 2 sheet metal screws from one of the front sides of the housing. Push the housing aside as far as necessary to be able to remove the glass. Change the fluorescent tubes. Put the housing back together in reversed order.

Trouble-Shooting

6.1 Error Diagnostics Fume Cupboard	34
6.2 Error Diagnostics Fume Cupboard	35

6.1 Error diagnostics fume cupboard function display

The following chapters contain notes for error diagnostics and error repairs. To repair some errors special tools are required and/or special knowledge is needed. In case of such errors please get in contact with the Wesemann service department or with the Infralab GmbH.

Error diagnostics fume cupboard function display		
Error	possible cause	Remedy
Light emitting diodes of the extract air function display do not shine	- No voltage - Defect connection cable	- Check voltage supply, if need be, restore voltage supply - Replace connection cable
Light emitting diodes of the extract air function display are flashing	- Setting of wrong display type - Defect connection cable	- Contact infralab - Replace connection cable
Actual value through service module not identical to the externally measured value	- Incorrect calibration - Incorrect orifice factor - Incorrect connection of measuring hose - Defect connection cable	- Contact infralab - Contact infralab + connection on the sensor remains free - connection on the sensor to be connected - Contact infralab
LED (LOW) always red	- Extract air volume too low - No voltage on the binder for motor - Minimum set values (wrong setting)	- Check ventilator on site - Inform Infralab - Inform Infralab
LED (LOW) flashing red	Power failure	Inform facility manager and/or Infralab
LED (OK) always green	Minimum set values (wrong setting)	Inform Infralab
LED (OK) flashing green	Maximum set values (wrong setting)	Inform Infralab

6.2 Error diagnostics fume cupboard sash control

Attention! The error diagnostic of the fume cupboard sash control shall only be conducted by service staff.

Error diagnostics fume cupboard sash control (ATTENTION! SHALL ONLY BE CONDUCTED BY SERVICE STAFF)		
Error	possible cause	Remedy
Keys UP, DOWN do not function	■ 230V AC Voltage supply not connected or faulty	■ Check voltage supply, check electronics fuses, if needed, replace them
	■ Defect connection cable between key and electronics	■ Check connection cable, if needed it should be replaced
	■ Defect motor cable	■ Check motor cable, if needed it should be replaced
Drive does not run	■ 230V AC Voltage supply not connected or faulty	■ Check voltage supply, check electronics fuses, if needed, replace them
	■ Defect connection cable between key and electronics	■ Check connection cable, if needed it should be replaced
	■ Defect motor cable	■ Check motor cable, if needed it should be replaced
Drive stops in an uncontrolled way when moving upward or downward and no obstacle is interrupting the light barrier	■ In case of a front slide distance of more than 1 m a standard motor unit is installed	■ In case of a front slide distance of more than 1 m the special version of the motor drive unit shall be installed
	■ Polluted sender/receiver optics	■ Clean sender/receiver optics
	■ Damaged light barrier cable	■ Check light barrier cable, if needed it should be replaced
	■ Light ray from sender to receiver not adjusted	■ Adjust light ray
	■ Defect passive infrared sensor (PIR)	■ Check sensor, if needed, adjust or replace it
Automatic locking process is not functioning	■ Defect or incorrectly adjusted passive infrared sensor (PIR)	■ Check sensor, if needed it should be replaced
	■ Defect relay output of the passive infrared sensor (PIR)	■ Check relay output, if needed it should be repaired
	■ Polluted or defect sender/receiver optics	■ Check sender/receiver optics, if needed it should be cleaned or repaired

Technical Data

7.1 Extract Air Function Display	38
7.2 Fume Cupboard Sash Control (AFS)	39

7.1 Extract air function display

Technical data	
Components	Data
Power supply	230 V AC/1-phase/50Hz
Fuse protection F1	63 mA time lag
Fuse protection F2	1.0 A time lag
Operating conditions	0° bis +55°C, max. 80% humidity
Weight	ca. 1,4kg
Dimensions (Sensorbox)	187 mm x 167 mm x 92 mm (WxLxH)
Battery	6V; 1.2 Ah
Pressure range of sensor	below 10 ms
Reaction time of sensor	below 10 ms
Sensor-overload	up to 200 mbar
Sensor-bursting pressure	500 mbar

7.2 Fume cupboard sash control (AFS)

Technical Data	
Components	Daten
Power supply	230 V AC/1-phase/50Hz
Fuse protection F1	0.63 A time lag
Fuse protection F2	3.15 A time lag
Power consumption	80 VA
Operating conditions	+5° bis +40°C, max. 80% Luftfeuchtigkeit
Weight	
■ electronics	approx. 3,2 kg
■ drive	approx. 4,6 kg
Dimensions	
■ electronics	280 mm x 260 mm x 80 mm (WxLxH)
■ drive	200 mm x 200 mm x 180 mm (WxLxH)

Spare Parts List

- The spare parts list is developed up to customers' specifications and can be requested if necessary.

Prototype Test Report

- The prototype test report can be requested or be found in the inspection documents if necessary.

www.wesemann.com

Service: 0180-5-WESEMANN*

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